

Title (en)

IMPROVEMENTS IN OR RELATING TO TWIN CHARGED ENGINES

Title (de)

VERBESSERUNGEN AN ODER FÜR ZWEIFACH AUFGELADENE MOTOREN

Title (fr)

AMÉLIORATIONS APPORTÉES AUX MOTEURS DOUBLE COMPRESSEURS

Publication

**EP 3130784 A1 20170215 (EN)**

Application

**EP 16183938 A 20160812**

Priority

GB 201514473 A 20150814

Abstract (en)

A twin charged engine is provided. The engine comprises a catalytic converter; a first compressor which, when operated, increases engine load; a second compressor which extracts energy from the exhaust gases to increase the overall engine efficiency; and a controller configured to operate one of at least two modes. A first mode is a standard operating mode in which the system is configured to optimise the efficiency of running of the engine. A second mode is for use under special conditions.

IPC 8 full level

**F02D 41/00** (2006.01); **F02B 37/04** (2006.01); **F02B 37/12** (2006.01); **F02B 37/18** (2006.01); **F02D 41/02** (2006.01); **F02D 41/06** (2006.01);  
**F02D 41/14** (2006.01)

CPC (source: CN EP GB US)

**F01N 3/023** (2013.01 - CN); **F01N 3/0885** (2013.01 - EP US); **F01N 3/2006** (2013.01 - EP US); **F01N 9/002** (2013.01 - EP US);  
**F02B 37/04** (2013.01 - GB); **F02B 37/183** (2013.01 - EP US); **F02B 39/04** (2013.01 - EP US); **F02B 39/10** (2013.01 - EP US);  
**F02D 23/00** (2013.01 - GB); **F02D 41/0007** (2013.01 - EP GB US); **F02D 41/0047** (2013.01 - CN); **F02D 41/0255** (2013.01 - EP GB US);  
**F02D 41/0275** (2013.01 - EP US); **F02D 41/029** (2013.01 - EP US); **F02D 41/062** (2013.01 - CN); **F02D 41/1446** (2013.01 - EP US);  
**F02D 41/1475** (2013.01 - CN); **F02M 26/08** (2016.02 - GB); **F01N 2260/04** (2013.01 - CN); **F01N 2430/00** (2013.01 - US);  
**F02B 33/40** (2013.01 - EP US); **F02B 37/04** (2013.01 - EP US); **F02B 37/18** (2013.01 - EP US); **F02B 37/24** (2013.01 - EP US);  
**F02D 2200/0802** (2013.01 - EP US); **F02D 2200/0808** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP GB US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

- [XI] FR 2992348 A3 20131227 - RENAULT SA [FR]
- [X] JP 2015025386 A 20150205 - NISSAN MOTOR
- [XYI] WO 2012162630 A2 20121129 - EATON CORP [US], et al
- [XI] GB 2492354 A 20130102 - GM GLOBAL TECH OPERATIONS INC [US]
- [YA] US 2005000217 A1 20050106 - NAU MICHAEL [DE], et al
- [A] US 2005188682 A1 20050901 - FLEDERSBACHER PETER [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3130784 A1 20170215**; CN 106468221 A 20170301; GB 201514473 D0 20150930; GB 2541382 A 20170222; MX 2016010510 A 20170307;  
RU 2016131515 A 20180205; US 10100690 B2 20181016; US 2017044948 A1 20170216

DOCDB simple family (application)

**EP 16183938 A 20160812**; CN 201610669822 A 20160815; GB 201514473 A 20150814; MX 2016010510 A 20160812;  
RU 2016131515 A 20160802; US 201615234905 A 20160811